

PATENT ABSTRACTS OF JAPAN

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(54) TRAILING EDGE FLAP FOR AIRCRAFT WING

(57)Abstract:

PURPOSE: To improve reliability of a structure by composing an actuation means for a flap member contained and supported in a trailing edge part of an aircraft wing through a specific link means of a lever arm connected to a rotation actuator, and providing a special support structure for the lever arm.

CONSTITUTION: An aircraft wing 10 in which a flap member 15 is contained in a trailing edge part 13 has an installation beam 18 extended from a lower surface of it backward. This installation beam 18 comprises a front structure fixture 19 and a back structure fixture 20 at the trailing edge part, and a flap supporting device and a bracket 21 for installing an actuator are incorporated at the backmost end. On the installation beam 18, the flap member 15 is supported by a front fixture assembly 22 pivotally installed on a carrying means 23 which is rolling-engaged with the installation beam 18, and a back fixture assembly 24 pivotally installed on a pair of actuator links 25, 26. The actuator links 25, 26 are pivotally installed on the carrying means 23 at forward ends, and pivotally installed on a pair of lever arms 27, 28 positioned in the bracket 21 at back ends.

